MWD Lithium Battery
PN: 32126H150G

3.6 V DD-Size Lithium Thionyl Chloride Cell (Li-SOCl₂), Gallium Electrolyte
High Rate Capability
High Capacity
Extreme Shock and Vibration Resistance
150 °C Operational Temperature

Benefits
- Industry leading capacity
- High rate capability for high constant current and pulse applications
- Gallium based electrolyte providing excellent start up and minimal passivation
- Automated assembly for uniform performance
- Extreme shock and vibration testing to ensure trouble free operation under severe drilling conditions
- Very competitive price

Key Features
- 304 L stainless steel structure
- Non-bulge design
- Hermetic glass-to-metal seal engineered for leak free operation
- Integral safety fuse and parallel diode to protect from short circuits and guarantee continued pack operation
- Reduced Electrode Surface Area, 322 cm² of common surface area: high rate capability & lower self-discharge.

Technical Support
- We pledge our full support to provide you with the service you deserve
- Application Analysis
- Testing and Test Reports
- Analysis of field problems and reports
- Engineering support for custom applications

Abuse and Transport Certifications
- UN / DOT Certified: Class 9 Transport, UN3090 Lithium Metal Batteries
- Shock Testing: 1000 G 0.5 ms 10 shocks each axis at 150 °C
- Vibration Testing: 30G Sine & 20G random vibration at 150 °C, (Full report available)

Cell Characteristics

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Capacity:</td>
<td>26 Ah – 28 Ah</td>
</tr>
<tr>
<td>Open Circuit Voltage At 20°C</td>
<td>3.66 V</td>
</tr>
<tr>
<td>Nominal Closed Circuit Voltage</td>
<td>3.3 V</td>
</tr>
<tr>
<td>Pulse Discharge Capability</td>
<td>4 A</td>
</tr>
<tr>
<td>Constant Current Discharge (max capacity)</td>
<td>650 mA</td>
</tr>
<tr>
<td>Constant Current Discharge (reduced capacity)</td>
<td>1300 mA</td>
</tr>
<tr>
<td>Storage Conditions</td>
<td>30 °C (86 °F)</td>
</tr>
<tr>
<td>Operational Temperature Range</td>
<td>-40 °C to 150 °C</td>
</tr>
<tr>
<td>Fuse:</td>
<td>5.0 A Littlefuse PICO II 251 Series</td>
</tr>
<tr>
<td>Parallel Diode:</td>
<td>3.0 A On Semi MURS320T3-D Diode</td>
</tr>
</tbody>
</table>

Physical Characteristics

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>31.90 mm (1.26 in)</td>
</tr>
<tr>
<td>Height</td>
<td>127.0 mm max. (5.0 in)</td>
</tr>
<tr>
<td>Weight</td>
<td>230 g</td>
</tr>
<tr>
<td>Lithium Metal Content</td>
<td>8.02 g</td>
</tr>
</tbody>
</table>
Exium MWD Lithium Battery, PN: 32126H150

Temperature versus Capacity

Discharge Temperature vs. Nominal Capacity
500 mA Discharge 25 °C to 150 °C

Performance Discharge Comparison

High Rate DD Performance Comparison Discharge at 125 °C

High Rate DD Performance Comparison Discharge at 150 °C

Storage
Store cells in a cool (<30 °C) and dry location

Warning
- Fire, explosion, and burn hazard
- Contents of this hermetically sealed cell are water reactive and will produce flammable and toxic gases if exposed to water
- Do not recharge, expose to flame, short circuit, crush, disassemble, or incinerate
- Do not expose cell to temperatures in excess of the maximum operating temperature, 150 °C

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